

## Protein

Translations of Life

Display Settings GenPept

## PRA1 family protein 3 [Rattus norvegicus]

NCBI Reference Sequence: NP\_079492.1

[FASTA](#) [GenBank](#)[Go to](#)

LOCUS NP\_079492 188 aa linear ROD 30-APR-2010

DEFINITION PRA1 family protein 3 [Rattus norvegicus].

ACCESSION NP\_079492

VERSION NP\_079492.1 GI:13027426

DBSOURCE REFSEQ: accession [NM\\_023972.3](#)

KEYWORDS .

SOURCE Rattus norvegicus (Norway rat)

ORGANISM [Rattus norvegicus](#)  
[Eukaryota](#); [Metazoa](#); [Chordata](#); [Craniata](#); [Vertebrata](#); [Euteleostomi](#); [Mammalia](#); [Eutheria](#); [Euarchontoglires](#); [Glires](#); [Rodentia](#); [Sciurognathi](#); [Muroidea](#); [Muridae](#); [Murinae](#); [Rattus](#).

REFERENCE 1 (residues 1 to 188)

AUTHORS Maier,S., Reiterer,V., Ruggiero,A.M., Rothstein,J.D., Thomas,S., Dahm,R., Sitte,H.H. and Farhan,H.

TITLE GTRAP3-18 serves as a negative regulator of Rab1 in protein transport and neuronal differentiation

JOURNAL J. Cell. Mol. Med. 13 (1), 114-124 (2009)

PUBMED [18363836](#)

REMARK GeneRIF: Results suggest a model where protein trafficking and neuronal differentiation are directly linked by the interaction of Rab1 and its regulator GTRAP3-18.

REFERENCE 2 (residues 1 to 188)

AUTHORS Tao,F., Li,L.W.J., Zhang,B., Yaster,M., Rothstein,J.D., Johns,R.A. and Tao,Y.K.

TITLE Evidence of neuronal excitatory amino acid carrier 1 expression in rat dorsal root ganglion neurons and their central terminals

JOURNAL Neuroscience 123 (4), 1045-1051 (2004)

PUBMED [14751225](#)

REMARK GeneRIF: The expression and distribution of the neuronal glutamate transporter, excitatory amino acid carrier-1 (EAAC1), are demonstrated in the dorsal root ganglion neurons and their central terminals.

REFERENCE 3 (residues 1 to 188)

AUTHORS Abdul-Ghani,M., Gougeon,P.Y., Prosser,D.C., Da-Silva,L.F. and Ngsee,J.K.

TITLE PRA isoforms are targeted to distinct membrane compartments

JOURNAL J. Biol. Chem. 276 (9), 6225-6233 (2001)

PUBMED [11096102](#)

REFERENCE 4 (residues 1 to 188)

AUTHORS Lin,C.I., Orlov,I., Ruggiero,A.M., Dykes-Hoberg,M., Lee,A., Jackson,M. and Rothstein,J.D.

TITLE Modulation of the neuronal glutamate transporter EAAC1 by the interacting protein GTRAP3-18

JOURNAL Nature 410 (6824), 84-88 (2001)

PUBMED [11242045](#)

COMMENT **PROVISIONAL REFSEQ:** This record has not yet been subject to final NCBI review. The reference sequence was derived from [AF240182.1](#).

Summary: modifies glutamate transporter EAAC1 function by lowering EAAC1 substrate affinity; regulates glutamate transport [RGD].

FEATURES

source Location/Qualifiers

1..188

/organism="Rattus norvegicus"

/strain="Sprague-Dawley"

/db\_xref="taxon:10116"

/chromosome="4"

/map="4q34"

Protein 1..188

/product="PRA1 family protein 3"

/note="glutamate transporter EAAC1 interacting protein; ADP-ribosylation factor-like 6 interacting protein 5; aip-5; protein JWa; ARL-6-interacting protein 5; prenylated Rab acceptor protein 2; glutamate transporter EAAC1-interacting protein; ADP-ribosylation factor-like protein 6-interacting protein 5"

/calculated\_mol\_wt=21418

Residues 5..156

/region\_name="PRA1"

/note="PRA1 family protein; c102137"

/db\_xref="CDD:154768"

1..188

CDS

/gene="Arl6ip5"

/gene\_synonym="Gtrap3-18"

/coded\_by="NM\_023972.3:1..567"

/db\_xref="GeneID:56028"  
/db\_xref="RGD:708572"

```
ORIGIN      1 mdvnlapla wddffpgsdr farpdfdis kwnnrsvsnl lyyqtnylv aammisvvgf
          61 lspfnmllg iivvlvftgf vvaahnkdil rrmkkqypta fvmvvnlasv flismfggvm
          121 vfvfgitfpl llmfihaalr lrnlknklen kmegiglkkv pmgiildale qqedsinkfa
          181 dyiskare
//
```